

WELL SUMMARY

page 1 of 3Location ID: ST-3-666 Field Representative(s): D. Menzie, M. CanavanDate Started: 05/27/92 Date Completed: 06/12/92Northing: 230842.33 Easting: 400629.55Brass Cap: 4494.36 Outer Casing: 4495.37 Inner Casing: 4495.85Drilling Method: Mud/Air Foam Rotary Drilling Contractor: Larjon Drilling Co.Driller: J. GowerTotal Depth Borehole: 704' Total Depth Well Casing: 681.11'Total Depth Surface Casing: 87'Diameter Well Casing: 4" Diameter Surface Casing: 10"Length of Bottom Blank: 5.27'Type of Screen: extra strength 0.02 slotScreen Interval: 665.88' to 675.84'Water First Detected: 486' Water Level Open Borehole: 424.38'(G.S.) 06/08/92Water Level Cased Borehole: 426.22' (T.O.C.) (06/10/92)Quik-Foam Use: 8.5 gallonsEstimated Water Use: 10,200 gallonsWell Casing:

4in x 3ft SCD 40 PVC:

4in x 5ft SCD 40 PVC:

4in x 10ft SCD 40 PVC:

4in x 20ft SCD 40 PVC:

Total SCD 40 PVC pipe: ft

custom SS centralizers: yes

4"x2' SS locking riser: 1 set

4" SS locking cap: 1

4" SS female cap: 1

Adaptor(s): 2

4in x 3ft SCD 5 SS pipe:

4in x 5ft SCD 5 SS pipe: 1

4in x 10ft SCD 5 SS pipe: 1

4in x 20ft SCD 5 SS pipe: 19'

Total SCD 5 SS pipe: 394.96'

4in x 5ft SCD 10 SS pipe: 1

4in x 10ft SCD 10 SS pipe: 1

4in x 20ft SCD 10 SS pipe: 13

Total SCD 10 SS pipe: 275.09'

Well Completion:

100# bags 16/40 sand: 8½ bags
100# bags 8/20 sand: 109½ bags
94# bags cement: 169 bags
50# bentonite powder: 17 bags
Benseal: 1 bags

Surface Casing:

94# bags cement: 45 bags
50# bags bentonite powder: 5 bags

Pertinent Field Notes:

05/20/92 Finish steam cleaning and mobilizing mud rotary equipment to site. Set up to drill but chain box (transfer case) on rig breaks down. - Menzie

05/27/92 Finish repair of chain box. Drill mud rotary 12¼" pilot hole from 0'-87'. - Menzie

05/28/92 Ream 12¼" pilot hole to 16" from 0'-87'. - Menzie

05/29/92 Set 87' of 10" steel surface casing and grout to surface. - Menzie

06/01/92 Demobilize mud rotary equipment. Steam clean and mobilize air foam rotary equipment. - Menzie

06/02/92 Drill air foam rotary with 9 7/8" button bit from 87'-386'. - Menzie

06/03/92 Drill air foam rotary from 385'-586'. - Menzie

06/04/92 Drill air foam rotary from 586'-704'. Demobilize air foam rotary equipment. - Menzie

06/05/92 Run full suite of geophysical logs. Steam clean and mobilize completion materials and equipment. - Menzie

06/08/92 Run 683.11' of 4" SS casing including 9.96' of extra strength screen. Screen interval from 665.88' to 675.84'. Install gravel pack and pump upper benseal plug. - Menzie

06/09/92 Pour filler sand to 10' above water level. Measured water level at 426.40' G.S. Pour 1st load of grout to surface. - Menzie

06/10/92 Pour 2nd load of grout. Surge and bail well for initial development. Install 1½ HP submersible pump at 525' G.S. - Menzie

Pertinent Field Notes: (cont'd)

- 06/11/92 Pump well for final development. Total discharge \approx 1,200 gallons. pH, conductivity and temperature stable. Turbidity less than 5 NTu's. - Menzie
- 06/12/92 Pull pump. Demobilize completion and development equipment. Well complete and ready for Lockheed Samplers.
- 06/15/92 Measure post-development water level at 426.20' T.O.C. - Menzie